

Performance Data



CB30 and CB40 Series

Duct Size	Core Eff. Area (ft ²)	Neck Velocity (FPM)	400			500			600			700			800			1000		
		Total Pressure	0.038			0.108			0.155			0.206			0.252			0.379		
6x6	0.149	CFM	59			74			89			104			119			149		
		NC	<20			<20			<20			<20			20			20		
		4-Way Throw (ft.)	3	4	7	4	5	8	6	7	10	6	8	12	8	10	14	9	12	16
10x6	0.275	3-Way Throw (ft.)	4	5	8	5	6	9	6	8	12	7	9	14	9	12	16	11	14	18
		CFM	110			137			165			192			220			275		
		NC	<20			<20			<20			<20			20			25		
8x8	0.289	4-Way Throw (ft.)	4	5	8	5	6	9	6	8	11	7	9	14	9	11	16	11	14	18
		3-Way Throw (ft.)	4	5	9	5	7	11	7	9	13	9	11	16	10	13	18	13	16	21
		CFM	116			144			173			202			231			289		
14x6	0.401	NC	<20			<20			<20			<20			20			25		
		4-Way Throw (ft.)	4	5	9	5	7	10	7	9	13	8	10	15	10	13	18	12	15	20
		3-Way Throw (ft.)	4	6	10	6	8	12	8	10	15	10	12	18	12	15	21	14	18	24
10x10	0.475	CFM	160			201			241			281			321			401		
		NC	<20			<20			<20			<20			25			25-30		
		4-Way Throw (ft.)	5	6	10	6	8	12	8	10	15	9	12	18	12	15	20	14	18	23
12x10	0.584	3-Way Throw (ft.)	5	7	11	7	9	14	9	11	17	11	14	20	14	17	24	15	20	27
		CFM	190			237			285			332			380			475		
		NC	<20			<20			20			20-25			25			25-30		
12x12	0.707	4-Way Throw (ft.)	6	7	11	7	9	13	9	11	17	10	13	20	14	17	23	15	20	26
		3-Way Throw (ft.)	6	8	13	8	10	16	10	13	19	13	16	23	15	19	27	18	23	31
		CFM	233			292			350			409			467			584		
14x14	0.984	NC	<20			<20			20			20-25			25			25-30		
		4-Way Throw (ft.)	6	8	13	8	10	15	10	13	19	12	15	23	15	19	26	18	23	30
		3-Way Throw (ft.)	7	9	15	9	12	18	12	15	22	15	18	26	17	22	31	20	26	35
16x16	1.308	CFM	283			353			424			495			565			707		
		NC	<20			<20			20			20-25			25			25-30		
		4-Way Throw (ft.)	7	9	14	9	12	17	11	14	22	14	17	26	17	22	30	20	26	34
18x18	1.677	3-Way Throw (ft.)	8	10	17	10	13	20	13	17	25	16	20	30	19	25	35	23	30	40
		CFM	394			492			591			689			787			984		
		NC	<20			<20			20			25			25-30			30		
20x20	2.093	4-Way Throw (ft.)	8	10	16	10	13	20	12	16	24	16	20	29	19	24	34	22	29	39
		3-Way Throw (ft.)	9	12	19	11	15	23	15	19	29	18	23	34	22	29	40	26	34	45
		CFM	523			654			785			916			1046			1308		
24x24	3.061	NC	<20			<20			20			25			25-30			30		
		4-Way Throw (ft.)	8	11	19	11	15	22	15	19	28	17	22	33	21	28	39	25	33	44
		3-Way Throw (ft.)	10	13	22	13	17	26	17	22	32	20	26	39	24	32	45	30	39	52
18x18	1.677	CFM	671			839			1006			1174			1342			1677		
		NC	<20			<20			20			25			25-30			30		
		4-Way Throw (ft.)	10	13	21	13	17	25	16	21	32	20	25	38	24	32	44	29	38	51
20x20	2.093	3-Way Throw (ft.)	11	15	25	15	20	30	20	25	37	23	30	44	28	37	52	34	44	59
		CFM	837			1046			1256			1465			1674			2093		
		NC	<20			<20			20			25			25-30			30		
24x24	3.061	4-Way Throw (ft.)	11	15	24	14	19	29	19	24	36	22	29	43	27	36	50	33	43	58
		3-Way Throw (ft.)	13	17	28	17	23	34	22	28	42	26	34	50	33	42	59	39	50	67
		CFM	1224			1531			1837			2143			2449			3061		
24x24	3.061	NC	<20			20			25			25-30			30			30-35		
		4-Way Throw (ft.)	13	17	27	17	22	33	21	27	41	25	33	49	32	41	57	38	49	65
		3-Way Throw (ft.)	14	19	32	20	26	38	26	32	48	29	38	57	38	48	67	44	57	76

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Duct Size	Core Eff. Area (ft ²)	Neck Velocity (FPM)	400			500			600			700			800			1000		
		Total Pressure	0.038			0.108			0.155			0.206			0.252			0.379		
30x30	4.858	CFM	1943			2429			2915			3401			3886			4858		
		NC	<40			45-50			<55			<60			<65			65-70		
		4-Way Throw (ft.)	14	19	31	19	25	37	25	31	47	28	37	56	37	47	65	43	56	75
		3-Way Throw (ft.)	16	22	36	23	29	44	28	36	54	34	44	65	42	54	76	51	65	87
36x36	7.067	CFM	1943			2429			2915			3401			3886			4858		
		NC	<40			45-50			<55			<60			<65			65-70		
		4-Way Throw (ft.)	15	21	36	22	28	43	28	36	53	33	43	64	41	53	74	49	64	85
		3-Way Throw (ft.)	18	25	41	26	33	50	32	41	62	40	50	74	49	62	87	58	74	99

Performance Notes:

- 1) Throw values are measured in feet for terminal velocities of 150/100/50 FPM
- 2) Throw data is based on supply air and room air both at isothermal conditions
- 3) Effective core areas listed in chart are defined as the measurement of space between the blades actually being utilized by the air
- 4) Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006